GeoBulletin is distributed weekly, by E-mail. Contributions are requested! If you have a news item, a request, an announcement etc. email it to geodept@geology.wisc.edu or leave it at the office, Room 225 by Noon on Monday.

**Weeks Lecture**

*Speaker list – Spring 2012*

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Friday, May 11, 2012:

Dr. Brad Singer  
*University of Wisconsin*  
*Dept. of Geoscience*

Friday, May 11<sup>th</sup>, 2012, 3:30 PM, Weeks Hall – Room AB20

**Geological, geochemical & geophysical evidence for rhyolitic caldera inception in the Laguna del Maule volcanic field, southern Chilean Andes**

**JOB OPENINGS:**
- Wetlands Geology Specialist -Illinois State Geological Survey -Prairie Research Institute -University of Illinois at Urbana-Champaign
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**GEOBULLETIN**
**MAY 11TH, 2012**

- Postdoctoral fellow at the Commonwealth Scientific and Industrial Research Organisation (CSIRO) in Clayton (Melbourne), Victoria, Australia. Visiting Assistant Professor Position in Mineralogy/Petrology - Northern Illinois University
- Leibniz Centre for Agricultural Landscape Research (ZALF) Leibniz-Institute of Freshwater Ecology and Inland Fisheries (IGB) - seeking highly qualified scientists
- Work on a European Union (EU) funded Marie Curie Initial Training Network project in MINeral SCaling (MINSC).
- The Department of Geology and Environmental Geosciences at Northern Illinois University invites applications for a one-year full-time position as Visiting Assistant Professor
- 3 year post-doctoral research assistant position that will combine studies of sublithospheric diamonds and their inclusions with a programme of experimental petrology - Postdoc on diamonds at Bristol University
- EFRC postdoctoral fellow position at Berkeley Lab
- Oceanographer GS-1360-13/14 : Bureau of Ocean Energy Management, Division of Environmental Assessment - Herndon, VA
- The Geosciences Department at the University of Wisconsin–Parkside invites applications for a one-year Lecturer position
- TEMPORARY APPOINTMENTS in the FBI Laboratory - opportunities for temporary appointments at the Counterterrorism & Forensic Science Research Unit of the FBI Laboratory in Quantico, Virginia

**JOB OPENINGS:**

**Wetlands Geology Specialist -Illinois State Geological Survey -Prairie Research Institute -University of Illinois at Urbana-Champaign**

We are seeking an individual(s) (up to two, depending on pool of applicants and programmatic need) to assist with hydrogeologic studies of wetlands, wetland mitigation sites, and other natural areas.

**Responsibilities:** Conduct field work, including installing wells and instruments, surveying, field testing, collecting hydrogeologic and geochemical measurements, and assisting other project participants. Ownload and maintain various field instrumentation. Measure surface and ground water levels. Maintain field equipment and vehicles. Enter and upload field data and perform quality control checks. Collect, review, and evaluate field and file data. Contribute to hydrogeologic characterization site reports. Participate in other geologic/environmental research.

**Qualifications: Required:** Bachelor’s degree in geology, physical geography, or related discipline with 2 years related experience. Familiarity with reading and interpreting aerial photographs and geologic and topographic maps. Ability to accurately collect, analyze, and interpret data from various information sources. Ability to write comprehensive technical reports. Ability to prioritize, organize, and handle heavy workloads with multiple deadlines. Ability to use sound judgment in decision-making. Strong interpersonal skills to develop good working relationships. Ability and willingness to effectively contribute and lead as part of a team. Proficiency in word processing and spreadsheet software. Must be able to conduct field work alone in wetlands in both rural and urban settings, some of which may be under adverse conditions (e.g. inclement weather, remoteness, and moderate physical exertion). Ability to travel overnight for up to one work week at a time. Must have a valid driver’s license. Must be able to lift and manipulate field equipment and other items weighing up to 50 pounds over uneven terrain.

**Preferred:** Master’s degree in geology, physical geography, or related discipline. Coursework in wetland science, geomorphology, glacial geology, hydrogeology, soil science, and/or sedimentology. Knowledge of the wetlands regulation process. Experience with field techniques and equipment. Experience with surveying and/or basic hand and power tools. Experience with graphics, geographic information systems, relational databases, and/or geodatabases.
This is a regular full-time 12-month academic professional position subject to the availability of continued funding and programmatic need. The starting date is negotiable after the closing date. Salary is commensurate with experience.

Applications must be received by May 18, 2012. To apply, all candidates must submit an online profile through jobs.illinois.edu by the close of the posting period. Qualified candidates must upload a letter of application which details qualifications noted above, résumé, and the names, addresses, phone numbers, and e-mail addresses of three professional references. All requested information must be submitted for your application to be considered. Incomplete information will not be reviewed. For further information please contact Lori Walston-Vonderharr, Human Resources, Illinois State Geological Survey.

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Postdoctoral fellow at the Commonwealth Scientific and Industrial Research Organisation (CSIRO) in Clayton (Melbourne), Victoria, Australia. The successful candidate will be based in Ian Madsen's group at CSIRO Process Science and Engineering and will have a joint appointment in the School of Geosciences at Monash University's Clayton campus. Supervision will be shared between Ian Madsen and myself. This three-year position is open to international candidates and comes with a generous salary and superannuation (retirement savings) package. The deadline for applications is 31 May 2012.

The goal of the project is to develop an improved understanding of the conditions that promote low-temperature formation of Mg-carbonate minerals and decomposition of readily precipitated hydrated carbonate minerals to durable, geologically stable mineral stores for CO2. The postdoctoral fellow will have access to X-ray diffraction instruments equipped with sophisticated environmental control systems at CSIRO and will be encouraged to apply for the opportunity to conduct in situ experiments at the Australian Synchrotron (also in Clayton, VIC, Australia).

Job Reference - VIC12/00808
Location: Clayton VIC
CSIRO Process Science and Engineering

Role Overview:
CSIRO Process Science and Engineering is seeking to appoint a highly motivated graduate who will be responsible for developing an understanding of the conditions that promote low-temperature mineral carbonation reactions and the decomposition of readily precipitated hydrated Mg-carbonate minerals to form durable, geologically stable mineral hosts for CO2.

You will have responsibility for the design and execution of predominantly in situ experimentation utilising the unique X-ray diffraction (XRD) facilities and environmental control systems at CSIRO Clayton and Monash University.


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Visiting Assistant Professor Position in Mineralogy/Petrology - Northern Illinois University

The Department of Geology and Environmental Geosciences at Northern Illinois University invites applications for a one-year full-time position as Visiting Assistant Professor beginning August 16, 2012. Areas of interest include experimental mineralogy/petrology, geochemistry, igneous petrology, mineral physics, planetary geology, and structural geology, among others. The successful candidate will teach physical geology and/or planetary geology at the introductory level and mineralogy and petrology at the intermediate and advanced levels based on his or her expertise in these broad fields. He or she may also assist in supervision of graduate and undergraduate research, conduct his or her own research and/or cooperate in current research projects.
The department offers programs leading to the B.S., M.S., and Ph.D. degrees, and currently has 12 faculty members, whose research and teaching interests are described on our web site at http://www.niu.edu/geology/. Facilities include an array of analytical instruments (e.g. electron microprobe, SEM, AFM, XRD, XRF, ion chromatograph, ICP-MS with laser ablation) and field equipment. NIU is part of the CARS research consortium at the nearby Advanced Photon Source of Argonne National Laboratory.

Candidates should hold a Ph.D. in geoscience at the time of appointment. Applicants must submit electronically a letter of application, curriculum vitae, a statement of teaching experience and capabilities in the areas desired, and a list of at least three references to: Colin Booth, Chair, Department of Geology and Environmental Geosciences, Northern Illinois University, DeKalb, IL 60115, cbooth@niu.edu. Review of applications will begin June 1, 2012 and will continue until the position is filled. State law requires the university to conduct a criminal background check before appointment. NIU is an AA/EEO Institution that values diversity in its faculty, staff, and students; we strongly encourage applications from diverse candidates including women and minorities. A state-mandated pre-employment criminal background investigation is required.

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KTP Associate in Geology: Carbonate Sedimentology/Isotopic and Elemental Stratigraphy

An exciting opportunity has arisen for an enthusiastic individual to work on a 24 month Knowledge Transfer Partnership (KTP) collaborative project between The University of Liverpool and Chemostrat Ltd (http://www.chemostrat.com) a specialist consultant in the provision of chemical stratigraphic correlations for the oil industry. You will have an honours degree (2.1 or above) in Geology, higher qualifications and industrial experience would be an advantage. Interest / experience in carbonate sedimentology and stratigraphy and experience in the Oil and Gas sector are desirable. You will need a creative and scientific approach suitable for developing new stratigraphic techniques, project management and team working skills.

The person will be based at Chemostrat in N Wales and will be expected to work at the University as the project demands Closing date for receipt of applications: 25 May 2012

More information and how to apply
http://www.liv.ac.uk/working/job_vacancies/research/R-579457.htm
Informal enquires to Jim Marshall, email: isotopes@liv.ac.uk

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Leibniz Centre for Agricultural Landscape Research (ZALF) Leibniz-Institute of Freshwater Ecology and Inland Fisheries (IGB) - seeking highly qualified scientists

We are seeking highly qualified scientists who are also highly motivated and enjoy interdisciplinary work. In addition to the specific requirements stated above, the candidates need a master of science (or an equivalent qualification) in the following or comparable disciplines: biology, environmental sciences, limnology, aquatic biology, ecology, biogeochemistry, agricultural sciences, mathematics, or geography. For the successful realisation of the project, flexibility, autonomy, communication skills, and teamwork are required.

We offer an exciting interdisciplinary project at the interface of aquatic and terrestrial biogeochemistry within a young and dynamic team without classical hierarchies. The positions are fixed-term and limited to 3 years. Start of the project will be 1 July. Salary is paid according to 13TV-L(ZALF) and TVöD (IGB) (50% positions). In keeping with the ZALF and IGB's policy regarding gender equity, female applicants are particularly encouraged. Disabled people with identical qualifications are encouraged to apply. For further other information please contact Dr. Katrin Premke (premke@igb-berlin.de), or go to the following website: www.landscales.de.

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Research Project: In situ nucleation and growth kinetics of carbonates and oxalates with inhibitors

**Work on a European Union (EU) funded Marie Curie Initial Training Network project in MINeral SCaling (MINSC).** The goal is to derive molecular level knowledge regarding the effect and role of inhibitors on the formation of calcium carbonates and oxalates. You will employ state-of-the-art synchrotron-based scattering and diffraction techniques combined with high-resolution imaging and quantify the kinetics and mechanisms of the nucleation and growth of these phases in the absence and presence of inhibitors and as a function of changing pH, saturation and T conditions. As part of the training, opportunities for research secondments to other MINSC partners as dictated by the research programme are strongly encouraged.

You are expected to publish research papers and to present your research at national and international meetings, and interface with other MINSC fellows and partner teams.

You will have a PhD in Geochemistry/Mineralogy, Inorganic Chemistry, or Material Sciences preferably including experience in aspects of synchrotron-based scattering and diffraction. You should have a demonstrated publication record, excellent communication skills, the ability to work as part of a team, and good laboratory experimental skills related to mineral synthesis and characterization.

Further information about the School can be found at [www.see.leeds.ac.uk](http://www.see.leeds.ac.uk/) and the MINSC project at [www.see.leeds.ac.uk/minsc/index.htm](http://www.see.leeds.ac.uk/minsc/index.htm).

You should be able to commence 15 Feb 2013 or as soon as practicable thereafter.

EU eligibility criteria: You must not have resided in the UK for more than 12 months in the last 3 years. You must have less than 5 years of your full-time equivalent research experience (including the time required to complete a PhD).

For further clarifications please send a CV to Liane G. Benning for final eligibility checks (l.g.benning@leeds.ac.uk).

Salary: Fixed at £61,971 per year, plus additional Marie Curie mobility allowances, which will be paid in Sterling using an appropriate conversion rate.

Informal enquiries may be made to Prof. Liane G. Benning, tel +44 (0)113 343 5220, email l.g.benning@leeds.ac.uk

Closing Date: 1 September 2012

Further details about the position, as well as application criteria and links to apply can be found at [http://bit.ly/ILRb4H](http://bit.ly/ILRb4H)

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**The Department of Geology and Environmental Geosciences at Northern Illinois University invites applications for a one-year full-time position as Visiting Assistant Professor** beginning August 16, 2012. Areas of interest include experimental mineralogy/petrology, geochemistry, igneous petrology, mineral physics, planetary geology, and structural geology, among others. The successful candidate will teach physical geology and/or planetary geology at the introductory level and mineralogy and petrology at the intermediate and advanced levels based on his or her
expertise in these broad fields. He or she may also assist in supervision of graduate and undergraduate research, conduct his or her own research and/or cooperate in current research projects.

The department offers programs leading to the B.S., M.S., and Ph.D. degrees, and currently has 12 faculty members, whose research and teaching interests are described on our web site at http://www.niu.edu/geology/Facilities include an array of analytical instruments (e.g. electron microprobe, SEM, AFM, XRD, XRF, ion chromatograph, ICP-MS with laser ablation) and field equipment. NIU is part of the CARS research consortium at the nearby Advanced Photon Source of Argonne National Laboratory.

Facilities

Candidates should hold a Ph.D. in geoscience at the time of appointment. Applicants must submit electronically a letter of application, curriculum vitae, a statement of teaching experience and capabilities in the areas desired, and a list of at least three references to: Colin Booth, Chair, Department of Geology and Environmental Geosciences, Northern Illinois University, DeKalb, IL 60115, cbooth@niu.edu. Review of applications will begin June 1, 2012 and will continue until the position is filled. State law requires the university to conduct a criminal background check before appointment. NIU is an AA/EEO Institution that values diversity in its faculty, staff, and students; we strongly encourage applications from diverse candidates including women and minorities.

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3 year post-doctoral research assistant position that will combine studies of sublithospheric diamonds and their inclusions with a programme of experimental petrology - Postdoc on diamonds at Bristol University

You will work together with Professor M.J. Walter and Dr. S.C. Kohn on a NERC-funded project to investigate the origin and significance of sublithospheric diamonds. These unique samples have the potential to elucidate the fate of subducted slabs and provide direct information on the nature of mantle down to at least 1000 km. The project aims to study the diamonds and their inclusions using an array of analytical and experimental techniques and to simulate their growth and subsequent history in the laboratory.

You will have a PhD in Earth Sciences or another relevant area of physical sciences, an interest in and knowledge of current research into the Earth's mantle, and experience in at least one, and preferably several of the following techniques: electron probe microanalysis, secondary ion mass spectrometry, infrared spectroscopy, multi-anvil apparatus, diamond anvil cell apparatus.

Your primary role will be to carry out analyses of natural diamonds and their inclusions, to undertake a programme of experimental petrological studies and to prepare manuscripts for publication.

The appointment is for three years from September 1, 2012 or as soon as possible thereafter.

If successful, you may be appointed either on a fixed-term or an open-ended contract depending on the extent of your previous relevant research experience. Three years’ appropriate and relevant experience at another higher education institution would normally lead to an appointment on an open-ended contract. Further information can be found at www bristol.ac.uk/hr/ftc/

Grade: Level a in Pathway 2 
Salary: £30,122 - £33,884

Contact: (School of Earth Sciences) Dr S.C Kohn
E-mail: Simon.Kohn@bristol.ac.uk Tel: 0117 331 5002

Alternative Contact: (School of Earth Sciences) Prof M.J Walter
EFRC postdoctoral fellow position at Berkeley Lab

A postdoctoral position is available in the Earth Sciences Division (ESD) at the Lawrence Berkeley National Laboratory within the Center for Nanoscale Control of Geologic CO2 (NCGC), a DOE Energy Frontier Research Center (EFRC) dedicated to nanoscale research connected with geological carbon sequestration (GCS). [web site http://esd.lbl.gov/research/facilities/ncgc/]

The position is formally within Thrust One (nucleation and precipitation phenomena), with research focused on reactions of carbonate-rich solutions with mineral surfaces and possible caprock materials including: initialization and control of precipitation; topology of precipitation, and coupled dissolution-precipitation reactions. Works includes synchrotron-based scattering studies of nucleation phenomena at interfaces using SAXS and GISAXS, and may extend to grazing incidence XAS, micro PDF, and nanoscale tomographic measurements. Studies include both pure mineral substrates, and model porous media, and are expected to involve organic components in the future.

The position will be overseen by Dr. Glenn Waychunas, also a member of the Berkeley Nanogeoscience Center (BNC), where complimentary opportunities exist for nanoparticle and mineral interface studies. The ESD and BNC will be moving to a new building at LBNL with new expanded laboratory facilities later in 2012.

Interested candidates should have experience with synchrotron radiation investigations, and knowledge of x-ray scattering approaches including SAXS and XAS. Experience with AFM instrumentation would be useful, but it can also be learned during the postdoctoral position. Work will include both laboratory synthesis and spectroscopy/imaging studies, and will require travel to synchrotron sources as necessary, and to a collaborator laboratory at Washington University in St. Louis (Prof. Young-Shin Jun). For non US citizens the appropriate visa will be required. Contact Dr. Waychunas (gawaychunas@lbl.gov) for information about the position, which will be available starting approximately August 1, 2012.

The position is funded for two years and there is the possibility of a third year pending EFRC program renewal.

Oceanographer GS-1360-13/14 : Bureau of Ocean Energy Management, Division of Environmental Assessment - Herndon, VA

Open: May 9, 2012
Close: May 30, 2012

Full Performance Level: GS-14
For your convenience, the hyperlinks are provided directly to the vacancy announcements in USAJOBS.

IMPORTANT: At a minimum your résumé must contain the job title (include job series and grade if Federal), duties, starting and ending date (month/year) and hours per week worked. It is strongly recommended that you use the USAJobs Resume Builder because it was designed to ensure that your resume includes the standard information needed. The Resume Builder is available at http://www.usajobs.gov/infocenter/resumetips.asp.

(Open to All US Citizens) Vacancy BOEM-EW-12-MM649532(DEU)
http://www.usajobs.gov/GetJob/ViewDetails/315765600

(Merit Promotion) Vacancy BOEM-EW-12-MM649536(MP)
http://www.usajobs.gov/GetJob/ViewDetails/315765500

Remember to thoroughly review each vacancy announcement and carefully read and follow all instructions. If you have any questions regarding application procedures contact the office shown on the vacancy announcement.

Please note that it is still your responsibility as an applicant to do your primary job searches through USAJobs, because that is the only official Department of the Interior vacancy distribution system. While we will do our best to send out courtesy e-mail messages in a timely manner, we will not extend vacancy announcements if an employee does not receive/read this message; e.g., employee is on leave, in travel status, etc.

NOTE: Please refer all questions or concerns regarding vacancy to BSEE Helpdesk. Phone: (703)787-1446 or Email: HUMAN.RESOURCES@BSEE.GOV

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The Geosciences Department at the University of Wisconsin–Parkside invites applications for a one-year Lecturer position to begin August 2012 with a possibility of extension to a second year. Preference will be given to those who have a demonstrated commitment to and experience teaching Geosciences classes, especially in the area of soft rock geology. But candidates with other specialty in geology are also encouraged to apply. The department offers degrees in Geosciences with a concentration in Earth Sciences or Environmental Geosciences.

Responsibilities:
The position will teach lecture and laboratory courses to undergraduate students in Geosciences and nonmajors. The teaching load will consist of 12 contact hours per semester, usually three lecture courses, plus a three-hour lab or two lecture courses plus two three-hour labs. Teaching responsibilities will include both introductory level courses in Geosciences (e.g. Historical Geology, Environmental Geology, Field Methods in Geology) and upper level courses in soft rock geology or environmental applications with field studies. Some service to the department in support of curriculum, teaching and service to the university and community in area of expertise and Geosciences-related education is encouraged.

Required Knowledge, Skills and Abilities:
- Broad knowledge of Geosciences.
- Sensitivity to, or experience in, working with a diverse, multicultural population.
- Ability to engage in appropriate instructor-student relationships and interactions and collegial conduct.
- Ability to use a computer or a teaching laboratory bench.
- Ability to sit and stand for extended periods of time.
- Ability to lift and manually operate equipment and supplies in the teaching laboratory.
- Ability to handle soils, rocks and water samples appropriate to teaching assignment.
Ability to travel and stay overnight.
Ability to perform work in the area of field geology.
Ability to be exposed to chemicals.

Qualifications:

Required:
• PhD, ABD, or Master’s in Geosciences or related subject matter expertise.
• Experience teaching courses in Geosciences.

Preferred:
• Experience teaching soft rock geology such as glacial geology, geomorphology, soil and surficial processes.
• Experience teaching students of diverse and multicultural backgrounds.

Salary:
Salary is in the range of $42,000 - $45,000 and commensurate with qualifications and experience. The University of Wisconsin System provides a liberal benefits package, including participation in a state pension plan.

The University:
UW-Parkside is committed to diversity, engagement, access, and academic excellence. Candidates who can contribute to these goals are encouraged to identify strengths and experiences. The University enrolls approximately 5,100 students, many of whom are first generation and nontraditional students. Located in northern Kenosha Country in the Chicago-Milwaukee urban corridor, much of the university’s 700-acre campus has been preserved in its natural wooded and prairie state.

To Apply:
Interested candidates should submit the following, preferably in electronic format:
• a cover letter outlining their qualifications for the position
• curriculum vitae
• the name and contact information of three references

Email submissions: skalbeck@uwp.edu
Mail submissions: Dr. John Skalbeck, Department of Geosciences, University of Wisconsin-Parkside, Kenosha, WI 53141. UW-Parkside is an AA/EEO employer D/M/V/W

TEMPORARY APPOINTMENTS in the FBI Laboratory - opportunities for temporary appointments at the Counterterrorism & Forensic Science Research Unit of the FBI Laboratory in Quantico, Virginia

WHAT THIS IS AND HOW TO APPLY:
There are opportunities for temporary appointments at the Counterterrorism & Forensic Science Research Unit of the FBI Laboratory in Quantico, Virginia, in what is called the Visiting Scientist Program. Appointments in the Visiting Scientist Program are typically awarded in one year increments, but renewable annually for several years, contingent upon funding and performance. Appointments are sponsored through the ORISE program through which applications should be submitted. Compensation is based education level.
There is no official deadline for application, but we are currently seeking visiting scientists in two specific areas: 1) GIS and environmental science

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We are seeking a visiting scientist with strong GIS skills and an understanding of the natural world (geology or ecology). Other areas of expertise which would be desirable include: understanding of pedology, petrology, terrestrial biogeography, geochemistry, plant ecology, geostatistics, and/or Bayesian statistics. (There is no expectation of any one individual having all of these skills).

There may be other appointments for candidates with backgrounds in plant genomics, fungal genomics, microbial genomics, and isotope geochemistry.

The visiting scientist program supports people at all educational levels, but for this GIS-related position a person with a master's degree would be ideal, but a motivated BS level candidate would also be considered. Postdoctoral candidates will also be considered, but this position is unlikely to advance such a person's career.

Feel free to contact Libby Stern for further information at: Libby.Stern@IC.FBI.GOV

2) Chromatography and analytical chemistry

We are seeking a visiting scientist with strong skills in chromatography to work on research projects using multi-dimension GC-MS. Preference will be given to candidates who also have expertise in petrochemistry.

Preference for this program will be for candidates with MS or PhD degrees.

Feel free to contact Chris Tipple for further information at: Christopher.Tipple@IC.FBI.GOV

HOW TO APPLY

The application process is VERY time consuming because, even after selection, applicants must undergo a background investigation. So applicants are encouraged to apply months in advance of your planned start date.

Please see these web sites for information about how to apply:

http://www.fbijobs.gov/242.asp
http://see.orau.org/ProgramDescription.aspx?Program=10063
http://see.orau.org/

The visiting scientist program supports people at all educational levels, but for this GIS-related position a person with a master's degree would be ideal, but a motivated BS level candidate would also be considered. Postdoctoral candidates will also be considered, but this position is unlikely to advance such a person's career.

REQUIREMENTS
1. Must be a US citizen
2. Must be willing to submit to a background investigation for a top secret clearance. Please consider if you are willing to submit to this, or if there are potential barriers in your background that would prevent you from gaining a clearance before applying for this appointment.
3. Must have received your last degree within 5 years of your appointment date.

NATURE OF THIS APPOINTMENT

Appointee will be working in the FBI Laboratory, but will be involved only with research and development. The appointee will NOT be involved with any criminal investigations. However they appointee may gain a better understanding of the forensic investigation process in the course of this internship.

Libby Stern
Research Chemist - Stable Isotope Specialist
FBI Laboratory - CFSRU
2501 Investigation Parkway
Quantico, VA 22135
(cell) 703-928-0278
(desk) 703-632-7825
(U) Libby.Stern@IC.FBI.GOV

********** HAVE A GREAT WEEKEND**********